Application/Control No. 10/599,391	Applicant(s)/Pater Reexamination MULE ET AL.	nt Under
Examiner	Art Unit	
WILLIAM W MOORE	1656	Page 1 of 5

U.S. PATENT DOCUMENTS

	C.C. TATENT DOCUMENTO				
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-4,663,280	05-1987	Sloma, Alan	435/69.2
*	В	US-4,666,847	05-1987	Alford et al.	435/252.33
*	O	US-4,757,020	07-1988	Beppu et al.	435/252.33
*	D	US-4,935,370	06-1990	Franke, Arthur E.	435/252.33
*	E	US-5,015,573	05-1991	Yarranton et al.	435/69.1
*	F	US-5,082,775	01-1992	McCaman et al.	435/69.7
*	G	US-5,496,711	03-1996	Alford et al.	435/69.1
*	Н	US-5,525,484	06-1996	Alford et al.	435/69.1
*	-	US-5,650,554	07-1997	Moloney, Maurice	800/288
*	J	US-5,948,682	09-1999	Moloney, Maurice M.	435/483
*	К	US-5,955,297	09-1999	Franke, Arthur E.	435/69.1
*	L	US-6,750,046	06-2004	Moloney et al.	435/69.7
*	М	US-6,753,167	06-2004	Moloney et al.	435/69.8

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	EP 0 077 109	04-1983	Europe	Maat et al.	
	0					
	Р					
	Q					
	R					
	s					
	Т.					

NON-PATENT DOCUMENTS

_		NORTH ATERT BOODMENTO					
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)					
	U	Emtage, J S, et al., 1983, "Synthesis of calf prochymosin (prorennin) in Escherichia coli", Proceedings of the National Academy of Sciences, USA, Vol. 80, No. 12, pages 3671-3675.					
	v	McCaman, M T, et al., 1985, "Engineering of prochymosin alters its activation properties", Journal of Cellular Biochemistry, Vol. 29, Suppl.9B, page 134, Abstract 0755.					
	w	McCaman, M T, et al., 1988, "Unusual zymogen-processing properties of a mutated form of prochymosin", Proteins: Structure, Function and Genetics, Vol. 3, No.4, pages 256-261.					
	x	Suzuki, J, et al., 1989, "Alteration of catalytic properties of chymosin by site-directed mutagenesis", Protein Engineering, Vol. 2, No. 7, pages 563-569.					

Application/Control No. 10/599,391	Applicant(s)/Patent Under Reexamination MULE ET AL.	
Examiner	Art Unit	
WILLIAM W. MOORE	1656	Page 2 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-5,434,067	07-1995	Michaelis et al.	435/196
*	В	US-5,496,711	03-1996	Alford et al.	435/69.1
*	С	US-5,593,865	01-1997	Rudolph et al.	435/69.1
*	D	US-5,766,599	06-1998	Paoletti et al.	424/199.1
*	Е	US-5,917,018	06-1999	Th.o slashed.gersen et al.	530/350
*	F	US-5,948,889	09-19 9 9	de Boer et al.	530/350
*	G	US-2004/0072320	04-2004	Fahrenmark et al.	435/226
	Н	US-			
П	T	US-			
П	J	US-			
	к	US-			
	L	US-			
	м	US-			

FOREIGN PATENT DOCUMENTS

				ONLIGHT ATLANDO	OMERTO	
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	s					
	т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Suzuki, J, et al., 1990, "Site-directed mutagenesis reveals functional contribution of Thr216, Lys220 and Asp304 in chymosin", Protein Engineering, Vol. 4, No. 1, pages 69-71.
	v	Mantafounis, D. et al., 1990, "Protein engineering of chymosin; modification of the optimum pH of enzyme catalysis", Protein Engineering, Vol. 3, No. 7, pages 605-609.
	w	Strop, P, et al., 1990, "Engineering enzyme subsite specificity: preparation, kinetic characterization, and X-ray analysis at 2.0-angstrom resolution of Val111Phe site-mutated calf chymosin", Biochemistry, Vol. 29, No. 42, pages 9863-9871.
	x	Beppu, T, 1990, "Structure and function of milk-clotting aspartic proteinases", Protein Engineering, Vol. 3, No. 4, pages 304-305.

Application/Control No.	Applicant(s)/Pater	nt Under
10/599,391	Reexamination MULE ET AL.	
Examiner	Art Unit	
WILLIAM W. MOORE	1656	Page 3 of 5

U.S. PATENT DOCUMENTS

				GIGHT THE HIT DOGG MENTO	
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	А	US-			
	В	US-			
	С	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-		-	
	Н	US-			
	T	US-			
	J	US-			
	к	US-			
	L	US-			
	м	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	s				·	
	т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Quinn, D, et al., 1991, "Modifying the substrate specificity of chymosin", Biochemical Society Transactions, Vol. 19, No. 3, page 267S.
	v	Huang, K, et al., 1992, "Functional implication of disulfide bond, CYS250-CYS283, in bovine chymosin", Biochemical and Biophysical Research Communications, Vol. 187, No. 2, pages 692-696.
	w	Pitts, J E, et al., 1993, "Expression and characterization of chymosin pH optima mutants produced in Trichoderma reesei, enzyme engineering of cattle chymosin", Journal of Biotechnology, Vol. 8, No. 1, pages 69-83.
	x	Yonezawa, M, et al., 1993, "Role of the amino-terminal amino acid sequences determining the in vitro refolding process of prochymosin polypeptide", Journal of Biotechnology, Vol. 28, No. 1, 85-97.

10/500 201		Applicant(s)/Patent Under Reexamination MULE ET AL.		
	Examiner	Art Unit		
	WILLIAM W. MOORE	1656	Page 4 of 5	

U.S. PATENT DOCUMENTS

	Old Control of Control				
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-			
	В	US-			
	С	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-			
	Н	US-			
	T	US-			
	J	US-			
	к	US-			
	L	US-			
	м	US-			

FOREIGN PATENT DOCUMENTS

	TOTAL OF THE STATE					
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	s					
	т					

NON-PATENT DOCUMENTS

*	-	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)						
	U	Nugent, P G, et al., 1996, "Protein engineering loops in aspartic proteinases: Site-directed mutagenesis, blochemical characterization and X-ray analysis of chymosin with a replaced loop from rhizopuspepsin", Protein Engineering, Vol. 9, No. 10, pages 885-893.						
	v	Burton, S C, et al., "One step purification of chymosin by mixed mode chromatography", Biotechnology and Bioengineering, Vol. 56, No. 1, pages 45-55.						
	w	Zhang, Y, et al., 1997, "Functional implications of disulfide bond, Cys45-Cys50, in recombinant prochymosin", Biochimica et Biophysica Acta, Vol. 1343, No. 2, pages 278-286.						
19	x	Albert, A, et al., 1998, "Protein engineering aspartic proteinases. Site-directed mutagenesis, biochemical characterisation, and X-ray analysis of chymosins with substituted single amino acid substitutions and loop replacements", Advances in Experimental Medicine and Biology, Vol. 436, pages 169-177.						

Application/Control No.	Applicant(s)/Pater	nt Under
10/599,391	Reexamination MULE ET AL.	
Examiner	Art Unit	
WILLIAM W. MOORE	1656	Page 5 of 5

U.S. PATENT DOCUMENTS

	Old Control of Control				
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-			
	В	US-			
	С	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-		_	
	Н	US-			
	T	US-			
	J	US-			
	к	US-			
	L	US-			
	м	US-			

FOREIGN PATENT DOCUMENTS

	TOTAL OF THE STATE					
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	s					
	т					

NON-PATENT DOCUMENTS

*	-	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)						
	U	Li, H, et al., 1998, "Functional implications of the 21-24 loop in recombinant prochymosin", Biochimica et Biophysica Acta, Vol. 1384, No. 1, pages 121-129.						
	v	Chitpinityol, S, et al., 1998, "Site-specific mutations of calf chymosin B which influence milk-clotting activity", Food Chemistry, Vol. 62, No. 2, pages 133-139.						
	w	Chen, H, et al., 2000, "Functional implications of disulfide bond, Cys206-Cys210, in recombinant prochymosin", Biochemistry, Vol. 39, No. 40, pages 12140-12148.						
	х	Zinovieva, N, et al., 2002, "Identification and characterization of multiple splicing forms of bovine prochymosin mRNA", Journal of Dairy Science, Vol. 85, No. 12, pages 3476-3479.						